

Precipitated calcium carbonate and method for the production thereof

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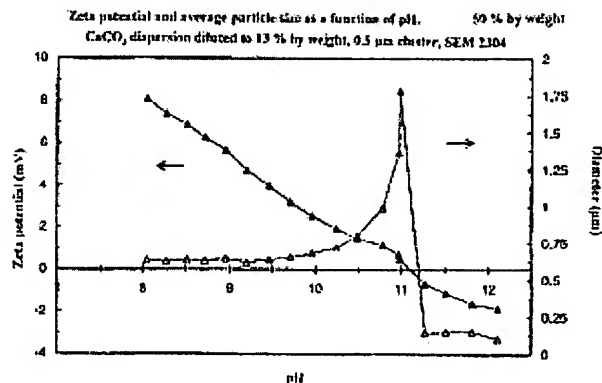
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Abstract not available for CN1239933

Abstract of correspondent: **WO9816471**

The invention concerns precipitated calcium carbonate products containing polynuclear regular agglomerates having a number of calcium carbonate particles (aggregates) attached to each other and having a particle size of about 40 to 200 nm. According to the invention, these products are prepared by adjusting the Z potential of the calcium carbonate suspension to -1...-20 mV by adjusting the pH of the suspension to 6.5...9.5. The pH of the calcium carbonate slurry obtained by causticizing is adjusted to a desired value in a box filter, where after the suspension is stirred by a heavy-duty mixer such that it is subjected to differences of about 50 to 200 m/s in peripheral speed. The products according to the invention have good opacity and are very well suited for coating paper.



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Abstract			
The invention concerns precipitated calcium carbonate products containing polynuclear regular agglomerates having a number of calcium carbonate particles (aggregates) attached to each other and having a particle size of about 40 to 200 nm. According to the invention, these products are prepared by adjusting the Z potential of the calcium carbonate suspension to -1...-20 mV by adjusting the pH of the suspension to 6.5...9.5. The pH of the calcium carbonate slurry obtained by causticizing is adjusted to a desired value in a box filter, where after the suspension is stirred by a heavy-duty mixer such that it is subjected to differences of about 50 to 200 m/s in peripheral speed. The products according to the invention have good opacity and are very well suited for coating paper.			

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54	TÍTULO O MATERIA DE LA SOLICITUD	
PROCESO PARA LA PREPARACIÓN DE PARTICULAS DISCRETAS DE CAR- BONATO DE CALCIO.		
71	SOLICITANTE (Apellidos y Nombre o Razón Social, R.U.T - Domicilio, País - Región, Ciudad, Comuna, Correo Electrónico, Fono)	
MINERALS TECHNOLOGIES INC., SOCIEDAD ORGANIZADA BAJO LAS LEYES DEL ESTADO DE DELAWARE , AVENUE, NEW YORK, NY 10174-1901 - ESTADOS UNIDOS DE AMERICA		
74	REPRESENTANTE (Apellidos y Nombre o Razón Social, R.U.T - Domicilio, País - Región, Ciudad, Comuna, Correo Electrónico, Fono)	
VILLASECA , CL		
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DONALD RICHARD DEUTSCH Y KENNETH JAME WISE , CHILE		
57	RESUMEN	
<p>Producto y proceso para la preparacion de particulas discretas de carbonato de calcio que resultan de la preparacion de una suspension acuosa de carbonato de calcio que contiene carbohidratos, carbonatar la suspension acuosa de carbonato de calcio mientras se mantiene la temperatura seleccionada para la iniciacion de la carbonatacion. El producto consisten en particulas discretas de carbonato de calcio que son especialmente utiles en pinturas, materiales plasticos, recubrimiento de papeles, rellenos o cargas de papeles, y, debido al nivel de pureza de las particulas de carbonato de calio, las mismas pueden ser utilizadas en aplicaciones cosmeticas, farmaceuticas y alimenticias.</p>		
De conformidad al Art. 44 de la Ley Nº 19.039 sobre Propiedad Uso Exclusivo DPI		

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